



Performance Data Sheet

VSAG475ZXT

General Information

Model	VSAG475ZXT	Refrigerant	R-404A
Test Condition	ARI	Performance Test Voltage	220V 3~ 50HZ
Return Gas	18.3°C (65°F) RETURN GAS	Motor Type	3PH

Performance Information

Evap Temp (°F)	Condensing Temperature (°F)							
		80	90	100	110	120	130	140
-40	Btu/h	3930	3750	3570	3380	3180	2980	2770
	Watts	1190	1360	1530	1700	1870	2050	2230
	Amps	6.55	6.81	7.08	7.35	7.62	7.91	8.20
	Lb/h	60.5	61.2	61.8	62.4	62.9	63.3	63.7
-35	Btu/h	4670	4420	4160	3900	3630	3360	3080
	Watts	1170	1340	1520	1690	1870	2050	2230
	Amps	6.53	6.79	7.07	7.34	7.63	7.92	8.22
	Lb/h	71.1	71.5	72.0	72.3	72.6	72.9	73.0
-30	Btu/h	5470	5140	4810	4480	4140	3790	3440
	Watts	1170	1340	1510	1690	1870	2050	2240
	Amps	6.51	6.79	7.07	7.36	7.65	7.95	8.25
	Lb/h	82.5	82.8	83.0	83.2	83.4	83.4	83.4
-25	Btu/h	6310	5910	5510	5110	4700	4280	3860
	Watts	1170	1340	1520	1700	1880	2070	2260
	Amps	6.52	6.80	7.09	7.38	7.68	7.98	8.30
	Lb/h	95.0	95.1	95.2	95.2	95.2	95.1	95.0
-20	Btu/h	7210	6740	6270	5800	5320	4830	4340
	Watts	1180	1360	1540	1720	1900	2090	2280
	Amps	6.53	6.82	7.11	7.41	7.72	8.03	8.35
	Lb/h	109	109	108	108	108	108	108
-15	Btu/h	8170	7630	7090	6550	6000	5440	4880
	Watts	1200	1380	1560	1740	1930	2120	2310
	Amps	6.55	6.84	7.14	7.45	7.76	8.08	8.41
	Lb/h	123	123	123	123	123	122	122
-10	Btu/h	9190	8580	7980	7360	6740	6120	5490
	Watts	1220	1400	1580	1770	1950	2140	2340
	Amps	6.58	6.88	7.18	7.49	7.81	8.14	8.47
	Lb/h	139	139	139	139	138	138	137
-5	Btu/h	10300	9600	8930	8240	7560	6860	6160
	Watts	1250	1430	1610	1800	1980	2180	2370
	Amps	6.61	6.91	7.22	7.54	7.86	8.20	8.53
	Lb/h	157	156	156	156	155	155	155

0	Btu/h	11400	10700	9950	9200	8440	7680	6910
	Watts	1280	1460	1640	1830	2020	2210	2400
	Amps	6.64	6.95	7.27	7.59	7.92	8.25	8.60
	Lb/h	175	175	175	175	174	174	173
5	Btu/h	12700	11900	11000	10200	9400	8570	7730
	Watts	1310	1490	1670	1860	2050	2240	2430
	Amps	6.67	6.99	7.31	7.64	7.97	8.31	8.66
	Lb/h	196	196	195	195	195	194	194
10	Btu/h	14000	13100	12200	11300	10400	9540	8640
	Watts	1340	1520	1700	1880	2070	2260	2460
	Amps	6.70	7.02	7.35	7.68	8.02	8.36	8.72
	Lb/h	218	218	217	217	217	216	216

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.731520E+04	-1.412151E+02	4.203230E+00	1.770187E+02
C2	3.458663E+02	5.272475E+00	-9.005244E-04	3.959923E+00
C3	-7.384238E+01	1.790808E+01	3.088137E-02	-1.934142E-02
C4	1.324700E+00	6.670592E-02	6.459338E-05	2.724442E-02
C5	-1.346363E+00	8.211101E-03	9.218897E-05	-6.657019E-04
C6	1.354044E-02	-7.556969E-03	-1.761964E-05	5.453951E-05
C7	3.992775E-03	-2.186106E-03	-2.733183E-06	1.293462E-04
C8	1.251691E-03	-7.450037E-04	-7.793081E-07	5.212220E-05
C9	-1.412219E-05	-6.909028E-06	2.875302E-08	2.416353E-06
C10	-1.210991E-04	6.766365E-05	1.517711E-07	-7.744828E-07

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature



Performance Data Sheet

VSAG475ZXT

General Information

Model	VSAG475ZXT	Refrigerant	R-404A
Test Condition	ARI	Performance Test Voltage	220V 3~ 50HZ
Return Gas	4.4°C (40°F) RETURN GAS	Motor Type	3PH

Performance Information

Evap Temp (°F)	Condensing Temperature (°F)							
		80	90	100	110	120	130	140
-40	Btu/h	3700	3520	3330	3130	2930	2730	2510
	Watts	1180	1340	1510	1680	1850	2030	2210
	Amps	6.61	6.85	7.09	7.35	7.60	7.87	8.14
	Lb/h	61.5	62.5	63.3	64.0	64.7	65.2	65.6
-35	Btu/h	4440	4180	3910	3640	3360	3070	2780
	Watts	1160	1330	1500	1670	1850	2030	2210
	Amps	6.57	6.82	7.07	7.33	7.59	7.87	8.15
	Lb/h	73.1	73.7	74.2	74.6	74.9	75.1	75.2
-30	Btu/h	5220	4880	4530	4180	3830	3460	3090
	Watts	1160	1330	1500	1670	1850	2030	2220
	Amps	6.55	6.80	7.06	7.33	7.60	7.88	8.17
	Lb/h	85.4	85.7	85.9	86.0	86.1	86.0	85.9
-25	Btu/h	6040	5620	5200	4770	4340	3900	3450
	Watts	1170	1340	1510	1680	1860	2050	2230
	Amps	6.54	6.81	7.08	7.35	7.63	7.91	8.21
	Lb/h	98.6	98.6	98.6	98.5	98.3	98.0	97.6
-20	Btu/h	6910	6410	5920	5420	4910	4390	3870
	Watts	1180	1350	1530	1700	1880	2070	2250
	Amps	6.56	6.83	7.10	7.38	7.66	7.96	8.26
	Lb/h	113	113	112	112	112	111	111
-15	Btu/h	7830	7260	6690	6120	5530	4940	4350
	Watts	1200	1380	1550	1730	1910	2090	2280
	Amps	6.58	6.86	7.14	7.42	7.71	8.01	8.32
	Lb/h	128	128	128	127	127	126	125
-10	Btu/h	8810	8170	7520	6880	6220	5560	4890
	Watts	1230	1410	1580	1760	1940	2120	2310
	Amps	6.62	6.90	7.18	7.47	7.77	8.07	8.38
	Lb/h	145	145	144	144	143	142	141
-5	Btu/h	9850	9140	8420	7700	6970	6240	5500
	Watts	1270	1440	1610	1790	1970	2150	2340
	Amps	6.66	6.94	7.23	7.52	7.82	8.13	8.45
	Lb/h	164	163	162	162	161	160	159

0	Btu/h	11000	10200	9390	8590	7800	6990	6180
	Watts	1300	1470	1650	1820	2000	2190	2370
	Amps	6.70	6.99	7.28	7.58	7.88	8.20	8.52
	Lb/h	184	183	182	182	181	180	179
5	Btu/h	12100	11300	10400	9560	8700	7820	6940
	Watts	1340	1510	1680	1860	2030	2220	2400
	Amps	6.75	7.04	7.34	7.64	7.94	8.26	8.58
	Lb/h	206	205	204	204	203	202	201
10	Btu/h	13400	12500	11500	10600	9670	8730	7780
	Watts	1370	1540	1710	1880	2060	2240	2430
	Amps	6.79	7.09	7.38	7.69	8.00	8.32	8.64
	Lb/h	230	229	228	228	227	226	226

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.715698E+04	-4.346720E+01	4.469932E+00	1.872451E+02
C2	3.416574E+02	8.128457E+00	3.867492E-03	4.247944E+00
C3	-7.781057E+01	1.698411E+01	2.835005E-02	-4.429925E-02
C4	1.258426E+00	6.840055E-02	1.112553E-04	3.024739E-02
C5	-1.415211E+00	-1.358676E-02	6.510030E-05	-9.652703E-04
C6	1.480790E-02	-7.962050E-03	-1.754372E-05	9.694386E-05
C7	6.154357E-03	-2.344547E-03	-3.681509E-06	2.120107E-04
C8	2.099254E-03	-8.026089E-04	-1.125092E-06	8.499496E-05
C9	1.987397E-05	-8.746217E-06	1.985133E-08	3.836654E-06
C10	-1.370085E-04	7.134393E-05	1.533804E-07	-1.332885E-06

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature



Performance Data Sheet

VSAG475ZXT

General Information

Model	VSAG475ZXT	Refrigerant	R-404A
Test Condition	ARI	Performance Test Voltage	230V 3~ 60HZ
Return Gas	4.4°C (40°F) RETURN GAS	Motor Type	3PH

Performance Information

Evap Temp (°F)	Condensing Temperature (°F)							
		80	90	100	110	120	130	140
-40	Btu/h	4770	4510	4250	3990	3710	3420	3120
	Watts	1160	1360	1560	1760	1970	2180	2390
	Amps	4.90	5.28	5.66	6.05	6.45	6.86	7.28
	Lb/h	79.7	80.4	80.9	81.3	81.6	81.7	81.6
-35	Btu/h	5630	5280	4930	4570	4200	3820	3420
	Watts	1190	1390	1590	1790	2000	2210	2420
	Amps	4.94	5.32	5.71	6.11	6.51	6.93	7.36
	Lb/h	93.0	93.3	93.5	93.6	93.5	93.2	92.8
-30	Btu/h	6540	6100	5660	5210	4740	4270	3790
	Watts	1220	1420	1620	1820	2030	2240	2450
	Amps	4.99	5.38	5.78	6.18	6.59	7.01	7.45
	Lb/h	107	107	107	107	107	106	105
-25	Btu/h	7520	6990	6450	5910	5360	4790	4220
	Watts	1260	1460	1660	1860	2070	2280	2490
	Amps	5.06	5.45	5.85	6.26	6.68	7.11	7.55
	Lb/h	123	123	122	122	121	120	119
-20	Btu/h	8560	7940	7310	6680	6040	5390	4720
	Watts	1300	1490	1690	1900	2100	2310	2530
	Amps	5.13	5.53	5.93	6.35	6.77	7.20	7.65
	Lb/h	140	140	139	138	137	136	135
-15	Btu/h	9670	8960	8250	7530	6800	6060	5310
	Watts	1340	1530	1730	1940	2140	2350	2570
	Amps	5.21	5.61	6.02	6.44	6.86	7.30	7.75
	Lb/h	159	158	157	156	156	154	153
-10	Btu/h	10900	10100	9270	8460	7640	6810	5970
	Watts	1380	1570	1770	1980	2180	2390	2610
	Amps	5.29	5.69	6.11	6.53	6.96	7.40	7.85
	Lb/h	179	178	178	177	176	174	173
-5	Btu/h	12100	11300	10400	9470	8570	7660	6730
	Watts	1420	1620	1820	2020	2220	2430	2650
	Amps	5.37	5.78	6.19	6.61	7.05	7.49	7.95
	Lb/h	202	201	200	199	198	197	195

0	Btu/h	13500	12500	11600	10600	9590	8590	7580
	Watts	1460	1660	1860	2060	2270	2480	2690
	Amps	5.44	5.85	6.27	6.70	7.13	7.58	8.04
	Lb/h	226	226	225	224	223	221	220
5	Btu/h	14900	13900	12800	11800	10700	9630	8540
	Watts	1500	1700	1900	2100	2310	2520	2730
	Amps	5.51	5.92	6.34	6.77	7.21	7.66	8.12
	Lb/h	253	253	252	251	250	249	247
10	Btu/h	16500	15400	14200	13100	11900	10800	9600
	Watts	1540	1740	1940	2140	2340	2550	2770
	Amps	5.57	5.98	6.40	6.83	7.27	7.72	8.18
	Lb/h	283	283	282	281	280	279	278

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.109640E+04	-8.564491E+01	2.249650E+00	2.309484E+02
C2	4.152946E+02	8.956080E+00	1.151192E-02	5.172663E+00
C3	-9.564615E+01	1.957863E+01	4.059079E-02	-6.037077E-02
C4	1.688760E+00	-1.556309E-03	-5.405666E-05	4.008219E-02
C5	-1.674558E+00	-1.141780E-02	3.167791E-05	-2.557544E-04
C6	2.419166E-02	-9.726387E-03	-2.674055E-05	2.400342E-04
C7	7.480510E-03	-8.152867E-04	-4.050384E-06	2.568091E-04
C8	2.361684E-03	-1.259691E-04	-1.104023E-06	9.946324E-05
C9	-2.429864E-05	3.492898E-05	5.470718E-08	3.757041E-06
C10	-2.174756E-04	8.197747E-05	2.299338E-07	-2.623382E-06

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature



Performance Data Sheet

VSAG475ZXT

General Information

Model	VSAG475ZXT	Refrigerant	R-404A
Test Condition	ARI	Performance Test Voltage	230V 3~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	Motor Type	3PH

Performance Information

Evap Temp (°F)	Condensing Temperature (°F)							
		80	90	100	110	120	130	140
-40	Btu/h	4960	4720	4470	4220	3950	3680	3390
	Watts	1190	1400	1600	1810	2020	2240	2460
	Amps	4.99	5.38	5.78	6.18	6.60	7.02	7.46
	Lb/h	76.3	77.0	77.5	77.9	78.1	78.2	78.2
-35	Btu/h	5840	5510	5180	4840	4490	4130	3760
	Watts	1200	1410	1610	1820	2040	2250	2480
	Amps	4.99	5.39	5.80	6.21	6.63	7.07	7.51
	Lb/h	88.9	89.3	89.5	89.7	89.7	89.6	89.3
-30	Btu/h	6780	6370	5950	5530	5090	4650	4190
	Watts	1220	1420	1630	1850	2060	2280	2510
	Amps	5.02	5.42	5.83	6.26	6.69	7.13	7.59
	Lb/h	103	103	103	103	103	102	102
-25	Btu/h	7790	7300	6790	6280	5760	5230	4690
	Watts	1240	1450	1660	1880	2090	2320	2540
	Amps	5.06	5.47	5.89	6.32	6.76	7.21	7.67
	Lb/h	117	117	117	117	117	116	116
-20	Btu/h	8870	8290	7700	7110	6510	5890	5270
	Watts	1280	1480	1700	1910	2130	2360	2580
	Amps	5.12	5.54	5.96	6.40	6.84	7.30	7.76
	Lb/h	134	133	133	133	132	132	131
-15	Btu/h	10000	9360	8690	8020	7330	6630	5920
	Watts	1310	1520	1730	1950	2170	2400	2630
	Amps	5.18	5.61	6.04	6.48	6.93	7.39	7.86
	Lb/h	151	151	151	150	150	149	148
-10	Btu/h	11300	10500	9770	9010	8240	7460	6670
	Watts	1350	1560	1780	1990	2210	2440	2670
	Amps	5.26	5.69	6.12	6.56	7.02	7.48	7.96
	Lb/h	171	170	170	169	169	168	167
-5	Btu/h	12600	11800	10900	10100	9240	8380	7510
	Watts	1390	1600	1820	2030	2250	2480	2710
	Amps	5.33	5.76	6.20	6.65	7.10	7.57	8.05
	Lb/h	192	192	191	191	190	189	188

0	Btu/h	14000	13100	12200	11300	10300	9390	8440
	Watts	1430	1640	1850	2070	2290	2520	2750
	Amps	5.40	5.84	6.28	6.72	7.18	7.65	8.13
	Lb/h	215	215	214	214	213	212	212
5	Btu/h	15500	14500	13500	12500	11500	10500	9470
	Watts	1470	1680	1890	2110	2330	2550	2780
	Amps	5.47	5.90	6.34	6.79	7.25	7.72	8.20
	Lb/h	240	240	240	239	239	238	237
10	Btu/h	17100	16000	15000	13900	12800	11700	10600
	Watts	1500	1710	1920	2140	2360	2580	2810
	Amps	5.52	5.95	6.39	6.84	7.30	7.77	8.25
	Lb/h	268	268	267	267	267	266	265

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.112689E+04	-2.233087E+02	2.040506E+00	2.165093E+02
C2	4.174077E+02	8.243444E+00	1.126547E-02	4.799654E+00
C3	-8.977773E+01	2.089890E+01	4.265962E-02	-2.091950E-02
C4	1.745683E+00	1.400979E-02	-3.125325E-06	3.603991E-02
C5	-1.571110E+00	-6.584876E-03	2.809001E-05	2.216832E-04
C6	2.462440E-02	-9.996113E-03	-2.627596E-05	2.243175E-04
C7	6.786096E-03	-2.331952E-03	-6.205430E-06	1.992138E-04
C8	2.073099E-03	-7.677027E-04	-2.041133E-06	7.606649E-05
C9	-3.914357E-05	-7.144251E-07	-7.746833E-10	2.646338E-06
C10	-2.192525E-04	8.811380E-05	2.318722E-07	-2.347258E-06

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature